AGENDA TITLE:

Adopt Resolution Amending Traffic Resolution 97-148 Approving Converting

the Traffic Control at the Intersection of Tokay Street and Washington Street from a Two-Way Stop to a Multi-Way Stop and Approving the Installation of

Stop Signs on Live Oak Way at Sweetwood Drive

MEETING DATE:

December 17, 2003

PREPARED BY:

Public Works Director

RECOMMENDED ACTION:

That the City Council adopt a resolution amending Section 2 of Traffic Resolution 97-148 by approving converting the traffic control at the intersection of Tokay Street and Washington Street from a two-way stop to a multi-way stop and approving the installation

of stop signs on Live Oak Way at Sweetwood Drive, as shown on Exhibit A.

BACKGROUND INFORMATION:

Tokay Street and Washington Street - The intersection of Tokay Street and Washington Street has been studied based on our observation of increasing accidents and a recent citizen request for service. Currently, Washington Street traffic is controlled by stop

signs at Tokay Street. Tokay Street traffic is not controlled.

Accident history for the period of over three-and-one-half years from 2000 to the present indicates that there has been an increase in failure-to-yield accidents at this intersection each year (see Exhibit B). These accidents occur when drivers on Washington Street fail to yield to Tokay Street traffic after stopping at the stop sign. Recent traffic volume counts indicate approximately 5,010 vehicles per day (vpd) enter the intersection from Tokay Street and 1,155 vpd enter the intersection from Washington Street. Land use adjacent to the intersection are all single-family residences.

A field review of the intersection indicates that parking demand on Tokay Street in the vicinity of Washington Street is relatively high. These parked vehicles create visibility problems for drivers entering Tokay Street from Washington Street. A particular problem observed during the field review was drivers being unable to see westbound vehicles on Tokay Street while stopped southbound on Washington Street due to a pickup and trailer that typically park at the corner. Accident reports also indicate the majority of the collisions that occurred at this intersection (70%) involved vehicles traveling in these directions.

Caltrans guidelines are used when considering the installation of multi-way stops. These guidelines consider accidents correctable with the installation of a multi-way stop, as well as vehicle and pedestrian volumes. The guidelines also recommend that traffic volumes be about equal on the intersecting streets. When installed at the intersection of high volume and low volume streets, drivers on the high volume street tend to disregard the stop sign due to the lack of cross street traffic. The minimum recommended traffic split is 60%/40%.

APPROVED:

Dixon Flynn, City Manage

Adopt Resolution Amending Traffic Resolution 97-148 Approving Converting the Traffic Control at the Intersection of Tokay Street and Washington Street from a Two-Way Stop to a Multi-Way Stop and Approving the Installation of Stop Signs on Live Oak Way at Sweetwood Drive December 17, 2003

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Based on these guidelines, the number of correctable accidents occurring at the intersection are sufficient to consider a multi-way stop control; however, the traffic volume split of 80%/20% is not ideal for a multi-way stop (Exhibit C). In addition, the problem at this intersection appears to be mostly related to visibility problems created by parked vehicles. When visibility problems exist, we typically recommend eliminating street parking to improve visibility. However, because parking demand is high in this area, eliminating parking will displace vehicles into other neighborhood areas, which is likely to create problems with nearby residents.

Staff recommends that City Council approve converting the traffic control at this intersection from a two-way stop to a multi-way stop, as shown on Exhibit A. Two marked pedestrian crosswalks are recommended to be installed across Tokay Street at Washington Street.

<u>Live Oak Way and Sweetwood Drive</u> - The intersection of Live Oak Way and Sweetwood Drive is a four-legged intersection, with the south leg being a cul-de-sac. There are no traffic controls at this intersection. Based on the Department's best practice, if the overall layout of the development is such that cross traffic would be infrequent, the intersection may be considered a three-legged intersection for traffic control purposes. Three-legged intersections in residential subdivisions are seldom controlled since the terminating street must yield before entering the through cross street. Although cross traffic in and out of the cul-de-sac on Live Oak Way is infrequent, due to the relatively long appearance of the cul-de-sac while traveling south at the intersection, some drivers may be unaware of the need to yield to Sweetwood Drive traffic.

There has been only one right-angle accident at this intersection in the past three-year period. Staff considered a yield control; however, our field review of the intersection revealed that existing landscaping at the corners affects the ability of drivers on Live Oak Way to see approaching vehicles on Sweetwood Drive. A Safe Approach Study was performed, and it was determined that the landscaping affected visibility to the point a stop control is recommended.

Based on these factors, we recommend that City Council approve the installation of stop signs on Live Oak Way at Sweetwood Drive, as shown on Exhibit A.

FUNDING:

Street Maintenance Account

The cost to convert the traffic control from a two-way stop to a multi-way stop at Tokay Street and Washington Street is approximately \$650. The cost for the installation of two stop signs and legends at Live Oak Way and Sweetwood Drive is approximately \$280.

Vicky McAthie, Finance Director

Richard C. Prima, Jr. Public Works Directo

RCP/RSK/pmf Attachments

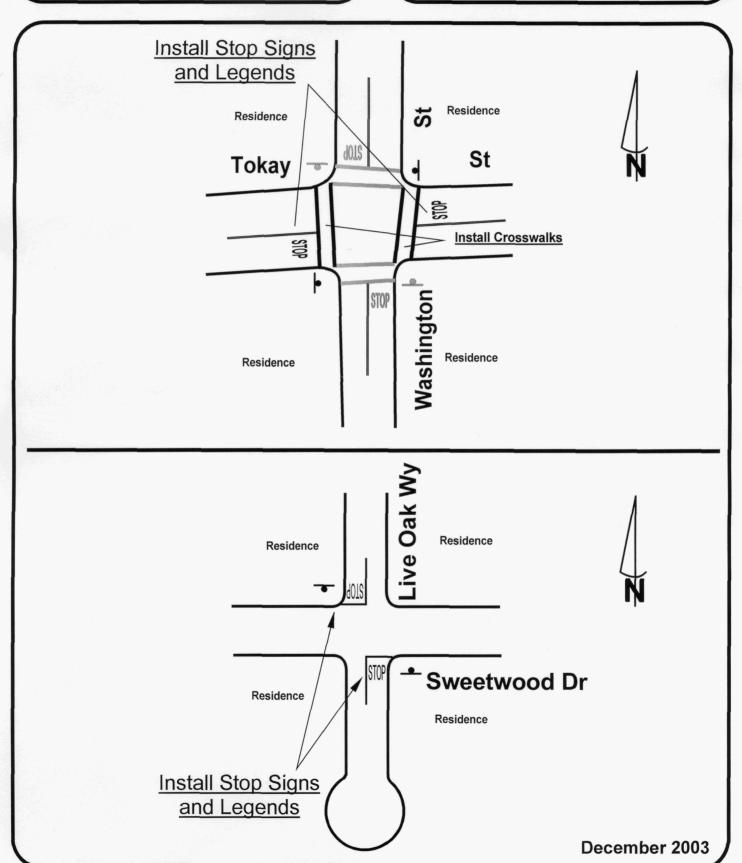
: City Attorney
Police Chief
City Engineer
Street Superintendent

Senior Traffic Engineer Senior Civil Engineer Swimley Concerned Citizens



Tokay St at Washington St Proposed Multi-Way Stop

Live Oak Wy at Sweetwood Dr Proposed Two-Way Stop

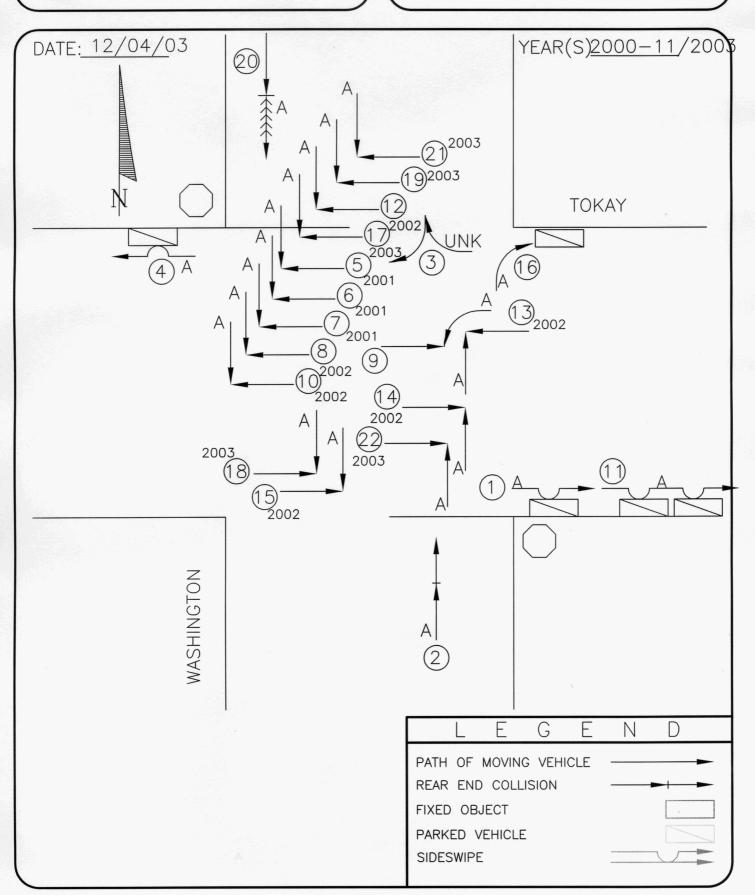




CITY OF LODI

PUBLIC WORKS DEPARTMENT

Collision Diagram
Intersection Of
TOKAY and WASHINGTON



PD#	N	2. D	ATE	TIME	DAMAGE	INJURIES	APPARENT CAUSE (A)		
00-166	1		06/2000	0600	UNK-MIN		H&R		
01-02060	2		24/2001	2224	MOD-UNK	0	H&R		
01-03342	3	. 03/2	26/2001	1655	MIN-MIN	0	UNK. D-2 UNFAMILIAR WITH THIS AREA.		
01-011171	4	. 10/0	03/2001	2236	MIN-UNK	0	H&R		
01-13642 *	5	. 12/0	02/2001	1502	MOD-MOD	0	FAILURE TO YIELD		
01-13766 *	6	. 12/	05/2001	1201	MOD-MOD	0	FAILURE TO YIELD D-2 72 YRS OLD		
01-014376 *	7	. 12/	19/2001	1723	MOD-MOD	0	FAILURE TO YIELD D-1 THOUGHT IT WAS 4 WAY STOP		
02-04975 *	8	. 04/2	27/2002	1655	MOD-MOD	0	FAILURE TO YIELD		
02-05204	9	. 05/	03/2002	1318	MOD-MOD	1	FAILURE TO YIELD		
02-07010 *	1	06/	12/2002	1656	MAJ-MAJ	3	FAILURE TO YIELD D-1 DID NOT SEE D-2		
02-08829	1	1. 07/2	26/2002	2038	UNK-MOD	0	H&R		
02-10114 *	1:	2. 08/	24/2002	1719	MIN-MOD	1	FAILURE TO STOP		
02-10151 *	1:	3. 08/	25/2002	0139	MOD-MOD	1	FAILURE TO YIELD		
02-10912 *	1	4. 09/	13/2002	0932	MAJ-MOD	0	FAILURE TO YIELD D-1 DID NOT SEE D-2		
02-13278 *	1	5. 11/	07/2002	0603	MIN-MIN	0	FAILURE TO YIELD		
03-6062	1	6. 05/	24/2003	1632	MOD-MOD	0	Unsafe speed, lost control turning onto Tokay		
03-6063 *	1	7. 06/	24/2003	0902	MIN-MAJ	0	Failure to yield by 73 year old driver		
03-6064 *	1	B. 06/	28/2003	1303	MOD-MOD	1	Failure to yield, did not see approaching vehicle		
03-8795 *	1	9. 07/	30/2003	0616	MOD-MIN	0	Failure to yield, did not see approaching vehicle		
03-8982	2	0. 08/	03/2003	1620	MIN-MIN	0	Unsafe backing		
03-9134 *	2	1. 08/	06/2003	1642	MOD-MOD	1	Failure to yield		
03-12262 *	2	2. 10/	17/2003	1256	MIN-MIN	0	Failure to yield, did not see approaching vehicle		
	2	3.		-					
	2	4.							
	2	5.	* - Right angle collisions potentially			l entially			
	2		eliminated by multi-way stop control.						
	\vdash	7.		-	-				
		8.							
		9.							
	3	0.							



MULTI-WAY STOP SIGN WARRANTS

	INTERSECTION OF	Tokay Street	and	Washington Street									
	DATE	December 4, 2003	BY:	: R. Kiriu									
	Any of the following conditions may warrant a multi-way STOP sign installation.												
1.	Where traffic signals are can be installed quickly	warranted and the need is urgent, the four to control traffic while arrangements are be	r-way ing m	y stop is an interim measure that made for the signal installation.									
				Satisfied Not Satisfied X									
2.	An accident problem, as by a multi-way stop inst include right angle and le	indicated by five or more reported acciden allation in a 12-month period. Types of acceft turn collisions.	its of ciden	f a type susceptible of correction nts susceptible of correction									
	Time period 10/200 Total number of acciden	02 - 10/2003 ts		Number of correctible accidents 6 Satisfied X Not Satisfied									
3.	Minimum volume warran a. The to 500	t: otal vehicular volume entering the intersecti vehicles per hour for any eight hours of a	ion fron	from all approaches must average at least erage day, and									
	Hour 12-1 Major Street 322 Minor Street 72			Highest eight hours a.m. to p. Total volume 3437 vehicles Average per hour 430 vehicles	.m.								
	avera	ombined vehicular and pedestrian volume fige at leas 200 units per hour for the same estreet vehicular traffic of at least 30 second	eight	t hours with an average delay to									
	Hour 12-1 Minor St Vehs 72 Pedestrians 928 pc	2-3 3-4 4-5 5-6 6-7 7-8 8-9 2 67 70 91 96 102 90 84 eds required (116 per hour)		Highest eight hours a.m. to p. Average per hour 84 vehicles Average per hour 0 peds (EST) Average units per hour 84 Satisfied Not Satisfied X	.m. - -								
4.		approach speed of the major street traffic e ne warrant is 70 percent of the above requ											
				85-percentile speed 32 MPH Satisfied Not Satisfied X	_								
	control are not adequate	nstallation is a useful traffic control measure t. It should not be used unless the volume of desirable at low volume intersections.	e whe	affic on the intersecting roads									
				Traffic major street81 % Traffic minor street19 %									
	Approved by: R. Kir	iu Pgr wa	arran	nt Satisfied: yes X no									
	ADOPTED FROM THE	CALTRANS TRAFFIC MANUAL MULTI-WA	AY S	STOP SIGN POLICY									

RESOLUTION NO. 2003-243

A RESOLUTION OF THE LODI CITY COUNCIL AMENDING TRAFFIC RESOLUTION NO. 97-148 APPROVING THE CONVERSION OF THE TRAFFIC CONTROL AT THE INTERSECTION OF TOKAY STREET AND WASHINGTON STREET FROM A TWO-WAY STOP TO A MULTI-WAY STOP AND APPROVING THE INSTALLATION OF STOP SIGNS ON LIVE OAK WAY AT SWEETWOOD DRIVE

WHEREAS, a study has been prepared based on staff's observation of increasing accidents at the intersection of Tokay Street and Washington Street; and

WHEREAS, Washington Street traffic is currently controlled by stop signs at Tokay Street, and Tokay Street traffic is not controlled; and

WHEREAS, the intersection of Live Oak Way and Sweetwood Drive is a four-legged intersection, with the south leg being a cul-de-sac. There are no traffic controls at this intersection. A Safe Approach Study was performed and it was determined that the landscaping affected visibility to the point a stop control is recommended; and

WHEREAS, staff recommends the following actions:

- 1) converting the traffic control at the intersection of Tokay Street and Washington Street from a two-way stop to a multi-way stop, as shown on Exhibit A, with the installation of two marked pedestrian crosswalks across Tokay Street at Washington Street; and
- 2) the installation of stop signs on Live Oak Way at Sweetwood Drive as shown on Exhibit A.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Lodi does hereby approve converting the traffic control at the intersection of Tokay Street and Washington Street from a two-way stop to a multi-way stop, as shown on Exhibit A, with the installation of two marked pedestrian crosswalks across Tokay Street at Washington Street; and

BE IT FURTHER RESOLVED that the City Council does hereby approve the installation of stop signs on Live Oak Way at Sweetwood Drive as shown on Exhibit A.

BE IT FURTHER RESOLVED that City of Lodi Traffic Resolution No. 97-148, Section 2, "Stop Intersections," is hereby amended as set out above.

Dated: December 17, 2003

I hereby certify that Resolution No. 2003-243 was passed and adopted by the City Council of the City of Lodi in a regular meeting held December 17, 2003, by the following vote:

AYES:

COUNCIL MEMBERS - Beckman, Hitchcock, Howard, Land, and

Mayor Hansen

NOES:

COUNCIL MEMBERS - None

ABSENT:

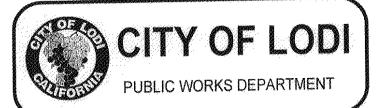
COUNCIL MEMBERS - None

ABSTAIN:

COUNCIL MEMBERS - None

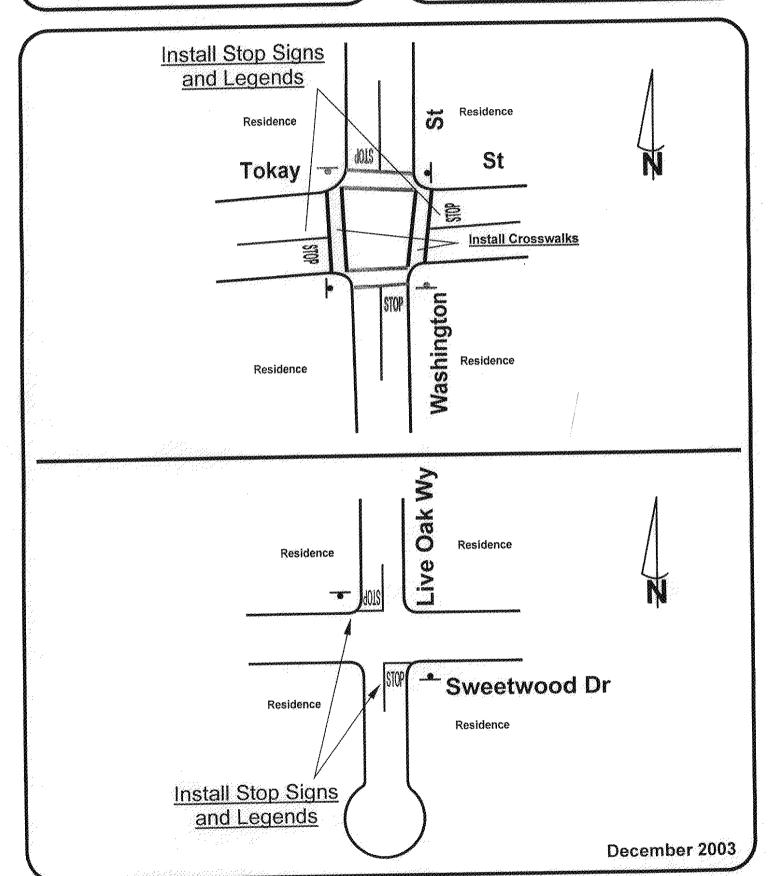
SUSAN J. BLACKSTON

City Clerk



Tokay St at Washington St Proposed Multi-Way Stop

Live Oak Wy at Sweetwood Dr Proposed Two-Way Stop



CITY COUNCIL

LARRY D. HANSEN, Mayor JOHN BECKMAN Mayor Pro Tempore SUSAN HITCHCOCK EMILY HOWARD KEITH LAND

CITY OF LODI

PUBLIC WORKS DEPARTMENT

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P.O. BOX 3006
LODI, CALIFORNIA 95241-1910
(209) 333-6706
FAX (209) 333-6710
EMAIL pwdept@lodi.gov
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December 11, 2003

H. DIXON FLYNN
City Manager

SUSAN J. BLACKSTON City Clerk

RANDALL A. HAYS
City Attorney

RICHARD C. PRIMA, JR.
Public Works Director

Concerned Citizens - Mailing List Attached

SUBJECT: Adopt Resolution Amending Traffic Resolution 97-148 Approving

Converting the Traffic Control at the Intersection of Tokay Street and Washington Street from a Two-Way Stop to a Multi-Way Stop and Approving the Installation of Stop Signs on Live Oak Way at

Sweetwood Drive

Enclosed is a copy of background information on an item on the City Council agenda of Wednesday, December 17, 2003. The meeting will be held at 7 p.m. in the City Council Chamber, Carnegie Forum, 305 West Pine Street.

This item is on the consent calendar and is usually not discussed unless a Council Member requests discussion. The public is given an opportunity to address items on the consent calendar at the appropriate time.

If you wish to write to the City Council, please address your letter to City Council, City of Lodi, P. O. Box 3006, Lodi, California, 95241-1910. Be sure to allow time for the mail. Or, you may hand-deliver the letter to City Hall, 221 West Pine Street.

If you wish to address the Council at the Council Meeting, be sure to fill out a speaker's card (available at the Carnegie Forum immediately prior to the start of the meeting) and give it to the City Clerk. If you have any questions about communicating with the Council, please contact Susan Blackston, City Clerk, at 333-6702.

If you have any questions about the item itself, please call Rick Kiriu, Senior Engineering Technician – Traffic, at 333-6800, extension 2668.

Richard C. Prima, Jr. Public Works Director

RCP/pmf Enclosure

cc: City Clerk

Stan Buchmiller 300 E. Tokay Street Lodi, CA 95240 Gary Regan 2815 Sweetwood Drive Lodi, CA 95242